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Standards and Technical News: Report of the SC-05-05 working group on grounding and EMC practices of the SC-05 subcommittee on interconnections meeting, held in conjunction with the 114th convention in Amsterdam, The Netherlands, 2003-03-22 (S). 51:7/8, pp. 707-708 (2003)

AES-X13 Guidelines for shielding (S). 51:7/8, p. 707 (2003)

AES-X27 Test methods for measuring electromagnetic interference susceptibility in balanced line-level interconnections (S). 51:7/8, p. 707 (2003)

AES-X35 Installation wiring practices (S). 51:7/8, p. 708 (2003)

AES-X112 Insulating cable-mount XL connectors (S). 51:7/8, p. 708 (2003)

AES-X125 Input filtering for electromagnetic compatibility (S). 51:7/8, p. 708 (2003)

HEAD-RELATED TRANSFER FUNCTION (HRTF)

Test Signal Generation and Accuracy of Turntable Control in a Dummy-Head Measurement System. Wersenyi, György and Illenyi, András, 51:3, pp. 150-155 (2003)

The Differential Pressure Synthesis Method for Efficient Acoustic Pressure Estimation (ER). Tao, Yufei, Tew, Anthony I., and Porter, Stuart J., 51:7/8, pp. 647-656 (2003)

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A Study on Head-Shape Simplification Using Spherical Harmonics for HRTF Computation at Low Frequencies. Tao, Yufei, Tew, Anthony I., and Porter, Stuart J., 51:9, pp. 799-805 (2003)

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Reconstruction of Mechanically Recorded Sound by Image Processing (ER). Fadeyev, Vitaliy and Haber, Carl, 51:12, pp. 1172-1185 (2003)

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The Bidirectional Microphone: A Forgotten Patriarch. Streicher, Ron and Dooley, Wes, 51:4, pp. 211-225 (2003)

History of Spatial Coding (F). Davis, Mark F., 51:6, pp. 554-569 (2003)

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Horn Acoustics: Calculation through the Horn Cutoff Frequency. Fryer, Peter A., 51:1/2, pp. 45-51 (2003)

Two-Port Representation of the Connection between Horn Driver and Horn. Behler, Gottfried K. and Makarski, Michael, 51:10, pp. 883-897 (2003)

INTELLECTUAL PROPERTY

Digital Rights Management (F). 51:9, pp. 855-870 (2003)

INTERNET AUDIO DELIVERY

Standards and Technical News: Report of the SC-06-04 working group on Internet audio delivery systems of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-04 (S). 51:3, pp. 167-168 (2003)

AES-X74 Recommended practice for Internet audio quality descriptions (S). 51:3, p. 167 (2003)

AES-X98 Liaison with the secure digital music initiative (SDMI) (S). 51:3, p. 168 (2003)

AES-X79 Distribution of music over non-physical networks (S). 51:3, p. 168 (2003)

Standards and Technical News: Report of the SC-06-04 working group on Internet audio delivery systems of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 115th convention in New York City, NY, US, 2003-10-09 (S). 51:12, p. 1194 (2003)

AES-X-074 Recommended practices for Internet audio quality descriptions (IAQUAD) (S). 51:12, p. 1194 (2003)

LETTERS TO THE EDITOR

Comments on " 'Deciphering an Enigma.' Harris, S. (News of the Sections), 50:12, p. 1102 (2002)" (L). Sankiewicz, Marianna and Budzynski, Gustaw, 51:7/8, p. 657 (2003)

Author's Reply to "Comments on 'Deciphering an Enigma.' Harris, S. (News of the Sections), 50:12, p. 1102

(2002) (L). Sankiewicz, Marianna and Budzynski, Gustaw, 51:7/8, p. 657 (2003)." Harris, Steven, 51:7/8, pp. 657-658 (2003)

Comments on " 'Dipole Loudspeaker Response in Listening Rooms.' [Kates, James M., 50:6, pp. 363–375 (2002)] and 'Perception of Reverberation Time in Small Listening Rooms.' [Niaounakis, T. I. and Davies, W. J., 50:6, pp. 343–350 (2002)]" (L). Salava, Tomas, 51:4, pp. 248-250 (2003)

Authors' Reply to "Comments to 'Dipole Loudspeaker Response in Listening Rooms.' [Kates, James M., 50:6, pp. 363–375 (2002)] and 'Perception of Reverberation Time in Small Listening Rooms.' [Niaounakis, T. I. and Davies, W. J., 50:6, pp. 343–350 (2002)]" (L). Kates, J. M., 51:4, p. 250 (2003); Davies, W. J., 51:4, p. 251 (2003)

Comments to "History of Spatial Coding (F). 51:6, pp. 554-569 (2003) (L)." Scheiber, Peter, 51:11, p. 1062 (2003)

Comments on "President's Message (L)." Klepper, David Lloyd ben Yaacov Yehuda, 51:4, p. 251 (2003)

Author's Reply to "Comments on 'President's Message (L).' " Immink, Kees A. S., 51:4, p. 251 (2003)

More Comments on President's Message and Comments (L). Woodgate, John, 51:9, p. 841

Comments on "A Simplified Wavetable Matching Method Using Combinatorial Basis Spectra Selection (ER). Horner, Andrew, 49:11, pp. 1060-1066 (2001) (L)." Bristow-Johnson, Robert, 51:3, pp. 162-163 (2003)

Author's Reply to "Comments on 'A Simplified Wavetable Matching Method Using Combinatorial Basis Spectra Selection (ER).' " Horner, Andrew, 51:3, p. 163 (2003)

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LEVEL METERS

Standards and Technical News: IEEE "Standard for Audio Program Level Measurement" Withdrawn (S). 51:6, p. 547 (2003)

LIBRARY AND ARCHIVE SYSTEMS

Standards and Technical News: Report of the SC-03-06 working group on digital library and archive systems of the SC-03 subcommittee on the preservation and restoration of audio recording meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-05 (S). 51:1/2, pp. 68-69 (2003)

AES-X98 Review of audio metadata (S). 51:1/2, p. 68 (2003)

AES-X99 Transfers to digital storage (S). 51:1/2, p. 69 (2003)

AES-X100 Asset management (S). 51:1/2, p. 69 (2003)

AES-X120 Liaison with IASA (S). 51:1/2, p. 69 (2003)

Standards and Technical News: Report of the SC-03-06 working group on digital library and archive systems of the SC-03 subcommittee on the preservation and restoration of audio recording meeting, held in conjunction with the AES 114th convention in Amsterdam, The Netherlands, 2003-03-22 (S). 51:9, p. 843 (2003)

AES-X98 Review of audio metadata (S). 51:9, p. 843 (2003)

AES-X120 Liaison with International Association of Sound and Audiovisual Archives (IASA) (S). 51:9, p. 843 (2003)

LINE-ARRAY LOUDSPEAKERS

Full-Sphere Sound Field of Constant-Beamwidth Transducer (CBT) Loudspeaker Line Arrays. Keele, D. B. (Don), Jr., 51:7/8, pp. 611-624 (2003)

LISTENER PREFERENCES

Effects of Down-Mix Algorithms on Quality of Surround Sound. Zielinski, Slawomir K., Rumsey, Francis, and Bech, Søren, 51:9, pp. 780-798 (2003)

Correction to "Effects of Down-Mix Algorithms on Quality of Surround Sound. 51:9, pp. 780-798 (2003) (CORR)." 51:12, p. 1192 (2003).

LISTENING TESTS

Standards and Technical News: Report of the AES SC-04-07 working group on listening tests, of the SC-04 subcommittee on acoustics meeting, held in conjunction with AES 113th convention in Los Angeles, CA, US, 2002-10-06 (S). 51:4, p. 255 (2003)

AES-X57 Subjective evaluation of vehicle sound reproduction systems (S). 51:4, p. 255 (2003)

Standards and Technical News: Report of the AES SC-04-07 working group on listening tests, of the SC-04 subcommittee on acoustics meeting, held in conjunction with AES 114th convention in Amsterdam, The Netherlands, 2003-03-23 (S). 51:7/8, p. 706 (2003)

AES-X57 Subjective evaluation of vehicle sound reproduction systems (S). 51:7/8, p. 706 (2003)

Standards and Technical News: Report of the AES SC-04-07 working group on listening tests, of the SC-04 subcommittee on acoustics meeting, held in conjunction with the AES 115th convention, New York, NY, US, 2003-10-12 (S). 51:12, p. 1194 (2003)

Development Projects

AES-X057 Subjective evaluation of vehicle sound reproduction systems (S). 51:12, p. 1194 (2003)

AES-X104 Speech intelligibility (task group) (S). 51:12, p. 1194 (2003)

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AES20-R Review of AES20-1996 (r2002) AES recommend-

ed practice for professional audio; subjective evaluation of loudspeakers (S). 51:12, p. 1194 (2003)

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Localization of 3-D Sound Presented through Headphone—Sound Presentation Duration and Localization Accuracy. Chen, Fang, 51:12, pp. 1163-1171 (2003)

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Why Are Commercials so Loud?—Perception and Modeling of the Loudness of Amplitude-Compressed Speech. Moore, Brian C. J., Glasberg, Brian R., and Stone, Michael A., 51:12, pp. 1123-1132 (2003)

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Assessment of Voice-Coil Peak Displacement X_{max}. Klippel, Wolfgang, 51:5, pp. 307-323 (2003)

Smart Digital Loudspeaker Arrays. Hawksford, M. O. J., 51:12, pp.1133-1162 (2003)

Why Is Bass Reproduction from a Dipole Woofer in a Living Room Often Subjectively More Accurate than from a Monopole Woofer? (L). Linkwitz, Siegfried, 51:11, p. 1063 (2003)

Analysis

Horn Acoustics: Calculation through the Horn Cutoff Frequency. Fryer, Peter A., 51:1/2, pp. 45-51 (2003)

Arrays

Wavefront Sculpture Technology (ER). Urban, Marcel, Heil, Christian, and Bauman, Paul, 51:10, pp. 912-932 (2003)

Bass

On the Acoustic Radiation from a Loudspeaker's Cabinet. Bastyr, Kevin J. and Capone, Dean E., 51:4, pp. 234-243 (2003)

The Virtual Loudspeaker Cabinet (ER). Wright, J. R., 51:4, pp. 244-247 (2003)

Components

Standards and Technical News: Call for comment, Reaffirmation of AES2-1984(r1997), AES recommended practice—specification of loudspeaker components used in professional audio and sound reinforcement (S). 51:1/2, pp. 63-64 (2003)

Cones, Resonance of

Standards and Technical News: Call for comment on withdrawal of AES19-1992 published 2003-03-10 (S). 51:5, p. 384 (2003)

Crossover networks

Sensitivity of High-Order Loudspeaker Crossover Networks with All-Pass Response (ER). Cochenour, Brandon, Chai, Carlos, and Rich, David A., 51:10, pp. 898-911 (2003)

Drivers

Direct-Radiator Loudspeaker Systems with High B1. Vanderkooy, John, Boers, Paul M., and Aarts, Ronald M., 51:7/8, pp. 625-634 (2003)

Equalization

Loudspeaker Equalizer Design for Near-Sound-Field Applications. Ser, Wee, Wang, Peng, and Zhang, Ming, 51:3, pp. 156-161 (2003)

Measurements

Assessment of Voice-Coil Peak Displacement X_{max}. Klippel, Wolfgang, 51:5, pp. 307-323 (2003)

On the Acoustic Radiation from a Loudspeaker's Cabinet. Bastyr, Kevin J. and Capone, Dean E., 51:4, pp. 234-243 (2003)

Modeling and Measurement

Standards and technical news: Report of the SC-04-03 working group on loudspeaker modeling and measurement of the SC-04 subcommittee on acoustics meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-06 (S). 51:3, pp. 164-166 (2003)

AES1id-R Review of AES-1id-1991 (r1997) plane-wave tubes: design and practice (S). 51:3, p. 164 (2003)

AES5id Review of AES5-1998 AES recommended practice for professional digital audio; preferred sampling frequencies for applications employing pulse-code modulation (S). 51:3, p. 164 (2003)

AES2 Revision of AES2-1984 (r1997) AES recommended practice; specification of loudspeaker components used in professional audio and sound reinforcement (S). 51:3, p. 164 (2003)

AES19-R Review of AES19-1992 (r1998) AES-ALMA standard test method for audio engineering; measurement of the lowest resonance frequency of loudspeaker cones (S). 51:3, p. 165 (2003)

AES-X72 Acoustic center of loudspeakers (S). 51:3, p. 165 (2003)

AES-X103 Large signal parameters of low-frequency loudspeaker drivers (S). 51:3, p. 165 (2003)

AES-X129 Loudspeaker distortion perception and measurement (S). 51:3, p. 165 (2003)

Standards and Technical News: Report of the SC-04-03 working group on loudspeaker modeling and measurement of the SC-04 subcommittee on acoustics meeting, held in conjunction with the AES 113th convention in Amsterdam, The Netherlands, 2003-03-23 (S). 51:9, pp. 843-844 (2003)

Development Projects

AES-X72 Acoustic center of loudspeakers (S). 51:9, p. 844 (2003)

AES-X103 Large signal parameters of low-frequency loudspeaker drivers (S). 51:9, p. 844 (2003)

AES-X129 Loudspeaker distortion perception and measurement (S). 51:9, p. 844 (2003)

Open Projects

AES-1id-R Review of AES-1id-1991 (r2003) AES information document; plane-wave tubes: design and practice (S). 51:9, p. 843 (2003)

AES-5id-R Review of AES-5id-1997 (r2003) AES information document for room acoustics and sound-reinforcement systems; loudspeaker modeling and measurement; frequency and angular resolution for measuring, presenting, and predicting loudspeaker polar data (S). 51:9, p. 843 (2003)

AES2-R Revision of AES2-1984 (r2003) AES recommended practice; specification of loudspeaker components used in professional audio and sound reinforcement (S). 51:9, p. 843 (2003)

AES19-R Review of AES19-1992 (r1998) AES-ALMA standard test method for audio engineering; measurement of the lowest resonance frequency of loudspeaker cones (S). 51:9, p. 844 (2003)

Performance and Response

Comments to " 'Dipole Loudspeaker Response in Listening Rooms.' [Kates, James M., 50:6, pp. 363–375 (2002)] and 'Perception of Reverberation Time in Small Listening Rooms.' [Niaounakis, T. I. and Davies, W. J., 50:6, pp. 343–350 (2002)] (L)." Salava, Tomas, 51:4, pp. 248-250 (2003)

Authors' Reply to "'Dipole Loudspeaker Response in Listening Rooms.' [Kates, James M., 50:6, pp. 363–375 (2002)] and 'Perception of Reverberation Time in Small Listening Rooms.' [Niaounakis, T. I. and Davies, W. J., 50:6, pp. 343–350 (2002)]. (L)." Kates, J. M., 51:4, p. 250 (2003); Davies, W. J., 51:4, p. 251 (2003)

Polar Data

Standards and Technical News: Call for comment, Reaffirmation of AES-5id-1997, AES information document for room acoustics and sound reinforcement systems—loudspeaker modeling and measurement—frequency and angular resolution for measuring, presenting and predicting loudspeaker polar data (S). 51:1/2, p. 65 (2003)

Quality

Differences in Performance and Preference of Trained versus Untrained Listeners in Loudspeaker Tests: A Case Study. Olive, Sean E., 51:9, pp. 806-825 (2003)

Radiation Patterns

Full-Sphere Sound Field of Constant-Beamwidth Transducer (CBT) Loudspeaker Line Arrays. Keele, D. B. (Don), Jr., 51:7/8, pp. 611-624 (2003)

MADI

Standards and Technical News: Call for comment, Draft AES10-xxx, Draft revised AES recommended practice for digital audio engineering—serial multichannel audio digital interface (MADI) (S). 51:1/2, p. 63 (2003)

Standards and Technical News: Call for comment, Draft AES10-yyyy, Draft revised AES recommended practice for digital audio engineering—serial multichannel audio digital interface (MADI) (S). 51:4, p. 253 (2003)

MECHANICAL MEDIA

Standards and Technical News: Report of the SC-03-02 working group on transfer technologies of the SC-02 subcommittee on the preservation and restoration of audio recording meeting, held in conjunction with the AES 114th convention in Amsterdam, The Netherlands, 2003-03-22 (S). 51:7/8, pp. 704-705 (2003)

AES-X64 Test methods and materials for archival mechanical media (S). 51:7/8, p. 704 (2003)

AES-X65 Rosetta tone for transfer of historical mechanical media (S). 51:7/8, p. 705 (2003)

AES-X106 Styli shape and size for transfer of records (S). 51:7/8, p. 705 (2003)

AES-X107 Compilation of technical archives for mechanical media (S). 51:7/8, p. 705 (2003)

MEDIA STORAGE AND HANDLING

Moving Digital Audio, Part 2—File Transfer (F). 51:3, pp. 180-187 (2003)

Standards and Technical News: Report of SC-03-04 working group on storage and handling of media, of the SC-03 subcommittee on the preservation and restoration of audio recording meeting, held in conjunction with the AES 113th convention, Los Angeles, CA, US, 2002-10-05 (S). 51:1/2, pp. 67-68 (2003)

AES22-R Review of AES22-1997 AES recommended practice for audio preservation and restoration; storage of polyester-based magnetic tape (S). 51:1/2, p. 67 (2003)

AES28-R Review of AES28-1997 AES standard for audio preservation and restoration; method for estimating life expectancy of compact discs (CD-ROM), based on effects of temperature and relative humidity (S). 51:1/2, p. 67 (2003)

AES35-R Review of AES35-2000 AES standard for audio preservation and restoration; method for estimating life expectancy of magneto-optical (M-O) disks, based on effects of temperature and relative humidity (S). 51:1/2, p. 67 (2003)

AES38-R Review of AES38-2000 AES standard for audio preservation and restoration; life expectancy of information

stored in recordable compact disc systems; method for estimating, based on effects of temperature and relative humidity (S). 51:1/2, p. 67 (2003)

AES-X51 Procedures for the storage of optical discs, including read only, write-once, and re-writable (S). 51:1/2, p. 67 (2003)

AES-X54 Magnetic tape care and handling (S). 51:1/2, p. 68 (2003)

AES-X55 Projection of the life expectancy of magnetic tape (S). 51:1/2, p. 68 (2003)

AES-X80 Liaison with ANSI/PIMA IT9-5 (S). 51:1/2, p. 68 (2003)

Standards and Technical News: Report of the SC-03-04 working group on the storage and handling of media of the SC-03 subcommittee on the preservation and restoration of audio recording meeting, held in conjunction with the AES 114th convention in Amsterdam, The Netherlands, 2003-03-23 (S). 51:7/8, pp. 705-706 (2003)

AES22-R Review of AES22-1997 AES recommended practice for audio preservation and restoration; storage of polyester-based magnetic tape (S). 51:7/8, p. 705 (2003)

AES28-R Review of AES28-1997 AES standard for audio preservation and restoration; method for estimating life expectancy of compact discs (CD-ROM), based on effects of temperature and relative humidity (S). 51:7/8, p. 705 (2003)

AES35-R Review of AES35-2000 AES standard for audio preservation and restoration; method for estimating life expectancy of magneto-optical (M-O) disks, based on effects of temperature and relative humidity (S). 51:7/8, p. 705 (2003)

AES38-R Review of AES38-2000 AES standard for audio preservation and restoration; life expectancy of information stored in recordable compact disc systems; method for estimating, based on effects of temperature and relative humidity (S). 51:7/8, p. 705 (2003)

AES-X51 Procedures for the storage of optical discs, including read only, write-once, and re-writable (S). 51:7/8, p. 705 (2003)

AES-X54 Magnetic tape care and handling (S). 51:7/8, p. 705 (2003)

AES-X55 Projection of the life expectancy of magnetic tape (S). 51:7/8, p. 705 (2003)

AES-X80 Liaison with ANSI/ PIMA IT9-5. (I3A) JTC (S). 51:7/8, p. 705 (2003)

METADATA, AUDIO

Demystifying Audio Metadata (F). 51:7/8, pp. 744-767 (2003)

Standards and Technical News: Report of the SC-06-06 Working group of audio metadata of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-07 (S). 51:3, p. 168 (2003)

AES-X114 Metadata review (S). 51:3, p. 168 (2003)

MICRO-MINIATURE TRANSDUCERS

Smart Digital Loudspeaker Arrays. Hawksford, M. O. J., 51:12, pp.1133-1162 (2003)

MICROPHONE(S)

A Low-Cost Intensity Probe. Raangs, R., Druyvesteyn, W. F., and de Bree, H.-E., 51:5, pp. 344-357 (2003)

Bidirectional

The Bidirectional Microphone: A Forgotten Patriarch. Streicher, Ron and Dooley, Wes, 51:4, pp. 211-225 (2003)

Measurement and Characterization

Standards and Technical News: Report of the SC-04-04 working group on microphone measurement and characterization of the SC-04 subcommittee on acoustics meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-07 (S). 51:4, pp. 254-255 (2003)

AES42-R Review of AES42-2001 AES standards for acoustics; digital interface for microphones (S). 51:4, p. 254 (2003)

AES-X62 Psychoacoustics of microphone characteristics (S). 51:4, p. 254 (2003)

AES-X63 Time-domain response of microphones (S). 51:4, p. 254 (2003)

AES-X85 Detailed professional microphone specifications (S). 51:4, p. 254 (2003)

AES-X93 Recommendations for revisions of IEC 61938 clause 7 (S). 51:4, p. 254 (2003)

Standards and Technical News: Report of the SC-04-04 working group on microphone measurement and characterization of the SC-04 subcommittee on acoustics meeting, held in conjunction with the AES 114th convention in Amsterdam, The Netherlands, 2003-03-24 (S). 51:6, pp. 550-551 (2003)

Development Projects

AES-X62 Psychoacoustics of microphone characteristics (S). 51:6, p. 550 (2003)

AES-X63 Time-domain response of microphones (S). 51:6, p. 550 (2003)

AES-X85 Detailed professional microphone specifications (S). 51:6, p. 550 (2003)

AES-X93 Recommendations for revisions of IEC 61938 clause 7 (S). 51:6, p. 550 (2003)

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AES42-R Review of AES42-2001 AES standards for acoustics; digital interface for microphones (S). 51:6, p. 550 (2003)

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The Bidirectional Microphone: A Forgotten Patriarch. Streicher, Ron and Dooley, Wes, 51:4, pp. 211-225 (2003)

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Two-Port Representation of the Connection between Horn Driver and Horn. Behler, Gottfried K. and Makarski, Michael, 51:10, pp. 883-897 (2003)

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The Differential Pressure Synthesis Method for Efficient Acoustic Pressure Estimation (ER). Tao, Yufei, Tew, Anthony I., and Porter, Stuart J., 51:7/8, pp. 647-656 (2003)

MODULATION

Industry Evaluation of In-Band On-Channel Digital Audio Broadcast Systems (ER). Wilson, David, 51:5, pp. 358-368 (2003)

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New Media for Music: An Adaptive Response to Technology (F). 51:6, pp. 575-787 (2003)

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Efficient Tempo and Beat Tracking in Audio Recordings. Laroche, Jean, 51:4, pp. 226-233 (2003)

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A Moving Horizon Optimal Quantizer for Audio Signals (ER). Goodwin, Graham C., Quevedo, Daniel E., and McGrath, David, 51:3, pp. 138-149 (2003)

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A Study on Head-Shape Simplification Using Spherical Harmonics for HRTF Computation at Low Frequencies. Tao, Yufei, Tew, Anthony I., and Porter, Stuart J., 51:9, pp. 799-805 (2003)

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OPTICAL PROCESSING

Reconstruction of Mechanically Recorded Sound by Image Processing. Fadeyev, Vitaliy and Haber, Carl, 51:12, pp.1172-1185 (2003)

OPTIMIZATION ALGORITHMS

Automated Parameter Optimization for Double Frequency Modulation Synthesis Using a Tree Evolution Algorithm (ER). Tan, B. T. G. and Liu, N., 51:6, pp. 534-546 (2003)

PEAK FLUTTER

Standards and Technical News: Call for Comment, Reaffirmation of AES6-1982 (r1997), AES standard method for measurement of weighted peak flutter of sound recording and reproducing equipment (S). 51:1/2, p. 64 (2003)

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Localization of 3-D Sound Presented through Headphone—Sound Presentation Duration and Localization Accuracy. Chen, Fang, 51:12, pp. 1163-1171 (2003)

Psychoacoustic Investigations on Sound-Source Occlusion. Farag, Hania, Blauert, Jens, and Alim, Onsy Abdel, 51:7/8, pp. 635-646 (2003)

PERCEPTUAL MODELING

Why Are Commercials so Loud?—Perception and Modeling of the Loudness of Amplitude-Compressed Speech. Moore, Brian C. J., Glasberg, Brian R., and Stone, Michael A., 51:12, pp. 1123-1162 (2003)

PERFORMANCE SPACE ACOUSTICS

Acoustical Measurements of Traditional Theaters Integrated with Chinese Gardens (ER). Chiang, Weihwa, Hsu, Yenkun, Tsai, Jinjaw, Wang, Jiqing, and Xue, Linping, 51:11, pp. 1054-1062 (2003)

PLANE-WAVE TUBES

Standards and Technical News: Call for Comment on Reaffirmation of AES-1id-1991, AES Information Document—Plain-wave Tubes: Design and Practice (S). 51:4, p. 253 (2003)

REVERBERATION

Analysis of Traditional and Reverberation-Reducing Methods of Room Equalization. Fielder, Louis D., 51:1/2, pp. 3-36 (2003)

ROOM EQUALIZATION

Analysis of Traditional and Reverberation-Reducing Methods of Room Equalization. Fielder, Louis D., 51:1/2, pp. 3-36 (2003)

SAMPLING FREQUENCIES

Standards and Technical News: Call for comment on

Draft AES5-20xx, draft revised AES recommended practice for professional digital audio—preferred sampling frequencies for applications employing pulse-code modulation has been published (S). 51:9, p. 842 (2003)

SCALE MODELS OF SPACES

Acoustical Renovation of Tainan Municipal Cultural Center Auditorium (ER). Chiang, Weihwa, Hwang, Chingtsung, and Hsu, Yenkun, 51:10, pp. 933-945 (2003)

SHIELDING AND EMC

Standards and Technical News: Report of SC-05-05 working group on grounding and EMC practices of the SC-05 subcommittee on interconnections meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-04 (S). 51:1/2, pp. 72-74 (2003)

AES-X13 Guidelines for grounding (S). 51:1/2, p. 73 (2003)

AES-X27 Test Methods for measuring electromagnetic interference (S). 51:1/2, p. 73 (2003)

AES-X35 Installation wiring practices (S). 51:1/2, p. 73 (2003)

AES-X112 XLR Free connectors with nonconducting shells (S). 51:1/2, p. 73 (2003)

AES-X125 Input filtering for electromagnetic compatibility (S). 51:1/2, p. 73 (2003)

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Efficient Tempo and Beat Tracking in Audio Recordings. Laroche, Jean, 51:4, pp. 226-233 (2003)

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Modeling

Signal Representation Including Waveform Envelope by Clustered Line-Spectrum Modeling. Kazama, M., Yoshida, K., and Tohyama, M., 51:3, pp. 123-137 (2003)

Processing

An Efficient Algorithm for the Restoration of Audio Signals Corrupted with Low-Frequency Pulses. Esquef, Paulo A. A., Biscainho, Luiz W. P., and Välimäki, Vesa, 51:6, pp. 502-517 (2003)

Comments on "A Simplified Wavetable Matching Method Using Combinatorial Basis Spectra Selection (ER). Horner, Andrew, 49:11, pp. 1060-1066 (2001) (L)." Bristow-Johnson, Robert, 51:3, pp. 162-163 (2003)

Author's Reply to: "Comments on: 'A Simplified Wavetable Matching Method Using Combinatorial Basis Spectra Selection (ER).' " Horner, Andrew, 51:3, p. 163 (2003)

Kautz Filters and Generalized Frequency Resolution: Theory and Audio Applications. Paatero, Tuomas and Karjalainen, Matti, 51:1/2, pp. 27-44 (2003)

Smart Digital Loudspeaker Arrays. Hawksford, M. O. J., 51:12, pp. 1133-1162 (2003)

SYNTHESIS

Automated Parameter Optimization for Double Frequency Modulation Synthesis Using a Tree Evolution Algorithm (ER). Tan, B. T. G. and Liu, N., 51:6, pp. 534-546 (2003)

SOUND

Intensity

A Low-Cost Intensity Probe. Raangs, R., Druyvesteyn, W. F., and de Bree, H.-E., 51:5, pp. 344-357 (2003)

SPATIAL

Coding

History of Spatial Coding (F). Davis, Mark F., 51:6, pp. 554-569 (2003)

Comments to "History of Spatial Coding (F). 51:6, pp. 554-569 (2003) (L)." Scheiber, Peter, 51:11, p. 1063 (2003)

Perception

Analysis of Traditional and Reverberation-Reducing Methods of Room Equalization. Fielder, Louis D., 51:1/2, pp. 3-36 (2003)

Objective Measures of Listener Envelopment in Multichannel Surround Systems. Soulodre, Gilbert A., Lavoie, Michel C., and Norcross, Scott G., 51:9, pp. 826-840 (2003)

Simulations

Study on the Relationship between Some Room Acoustical Descriptors (ER). Ouis, D., 51:6, pp. 518-533 (2003)

Sound

Modal Equalization of Loudspeaker-Room Responses at Low Frequencies. Mäkivirta, Aki, Antsalo, Poju, Karjalainen Matti, and Välimäki, Vesa, 51:5, pp. 324-343 (2003)

SPECTRAL MODELING

Signal Representation Including Waveform Envelope by Clustered Line-Spectrum Modeling. Kazama, M., Yoshida, K., and Tohyama, M., 51:3, pp. 123-137 (2003)

STANDARDS AND INFORMATION DOCUMENTS

AES47-2002 AES standard for digital audio—digital input-output interfacing—transmission of digital audio

over asynchronous transfer mode (ATM) networks (S). 51:7/8, pp. 659-683 (2003)

AES64-2002 AES standard for network and file transfer of audio—audio-file transfer and exchange—radio traffic audio delivery extension to the broadcast WAVE file format (S). 51:5, pp. 369-383 (2003)

AES-R4-2002 AES standards project report—guidelines for AES standard for digital audio—digital input-output interfacing—transmission of digital audio over asynchronous transfer mode (ATM) networks, AES47 (S). 51:7/8, pp. 684-703 (2003)

STANDARDS AND TECHNICAL NEWS

See also specific key words

Acoustics and Sound-Source Modeling

Report of the SC-04-01 working group on acoustics and sound source modeling, of the SC-04 subcommittee on acoustics meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-07 (S). 51:4, p. 254 (2003)

AES-X05 Room and source simulators: specification and evaluation of computer models for design and auralization; recommendations for transportable input and output files (S). 51:4, p. 254 (2003)

AES-X70 Smoothing digitally-derived frequency response data on a fractional octave basis (S). 51:4, p. 254 (2003)

AES-X83 Loudspeaker polar radiation measurements suitable for room acoustics (S). 51:4, p. 254 (2003)

AES-X108 Measurement of the acoustical and electroacoustic characteristics of personal computers (S). 51:4, p. 254 (2003)

AES-X122 Loudspeaker radiation and acoustical surface data measurements: how they apply to usage environments (S). 51:4, p. 254 (2003)

Analog Recording

Report of the SC-03-01 working group on analog recording of the SC-03 subcommittee on the preservation and restoration of audio recording, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-06 (S). 51:3, p. 164 (2003)

AES6-R Revision of AES6-1982 (r2001) method for measurement of weighted peak flutter of sound recording and reproducing equipment (S). 51:3, p. 164 (2003)

AES7-R Review of AES7-2000 AES standard for the preservation and restoration of audio recording; method of measuring recorded fluxivity of magnetic sound records at medium wavelengths (S). 51:3, p. 164 (2003)

Audio Applications of IEEE 1394

Report of SC-06-02 working group on audio applications using the high performance serial bus (IEEE1394) of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 113th convention, Los Angeles, CA, US, 2002-10-04 (S). 51:1/2, p. 74 (2003)

Current Projects

AES-X75 IEC Liaison for new work project initiated by passage of IEC-PAS 61883-6 (1998-06) (S). 51:1/2, p. 74 (2003)

AES-X126 Professional audio over 1394 (S). 51:1/2, p. 74 (2003)

AES-X127 Liaison with IEEE 1394.1 (S). 51:1/2, p. 74 (2003)

AES-X132 Synchronization of audio over IEEE 1394 (S). 51:1/2, p. 74 (2003)

Development Projects

AES-X75 IEC Liaison for new work project initiated by passage of IEC-PAS 61833-6 (1998-06) (S). 51:6, p. 552 (2003)

AES-X101 Data type, properties, and method definitions for audio device application program interfaces (API) (S). 51:6, p. 552 (2003)

AES-X126 Profile for professional audio over 1394 (S). 51:6, p. 552 (2003)

AES-X127 Liaison with IEEE 1394.1 (S). 51:6, p. 552 (2003)

AES-X132 Synchronization of audio over IEEE 1394 (S). 51:6, p. 552 (2003)

X137 Liaison with 1394TA (S). 51:6, p. 552 (2003)

1394.1 Tutorial (S). 51:6, p. 552 (2003)

IEEE 1394 at S800 Data rate over Cat 5 cable (S). 51:6, p. 552 (2003)

Liaisons

AES-X121 Wide area synchronization (S). 51:6, p. 552 (2003)

Maintenance Projects

AES24-1-R Review of AES24-1-1998 (Revision of AES24-1-1995) AES standard for sound system control; application protocol for controlling and monitoring audio devices via digital data networks; part 1: principles, formats, and basic procedures (S). 51:1/2, p. 74 (2003)

AES24-2-R Monitoring of progress of AES24-2-tu AES standard for sound system control; application protocol for controlling and monitoring audio systems; part 2: class tree (S). 51:1/2, p. 74 (2003)

AES-X101 Data type, properties, and method definitions for audio device application program interfaces (API) (S). 51:1/2, p. 74 (2003)

Report of SC-06-02 working group on audio applications using the high performance serial bus (IEEE 1394) of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 114th convention, Amsterdam, The Netherlands 2003-03-21 (S). 51:6, pp. 551-552 (2003)

New Business

Power over Ethernet (S). 51:6, p. 552 (2003)

1394b Silicon update from Texas Instruments (S). 51:6, p. 552 (2003)

Open Projects

AES24-1-R Review of AES24-1-1998 (Revision of AES24-1-1995) AES standard for sound system control; application protocol for controlling and monitoring audio devices via digital data networks; part 1: principles, formats, and basic procedures (S). 51:6, p. 551 (2003)

AES24-2-R Monitoring of progress of AES24-2-tu AES standard for sound system control; application protocol for controlling and monitoring audio systems; part 2: class tree (S). 51:6, pp. 551-552 (2003)

Audio Connectors

Report of the SC-05-02 AES standards working group on audio connectors of the SC-05 subcommittee on interconnections meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US (S). 51:1/2, pp. 70-71 (2003)

AES14-R Review of AES14-1992 (r1998) AES standard for professional audio equipment; application of connectors, part 1, XLR-type polarity and gender (S). 51:1/2, p. 70 (2003)

AES26-R Review of AES26-2001 AES recommended practice for professional audio; conservation of the polarity of audio signals (S). 51:1/2, p. 70 (2003)

AES45-R Review of AES45-2001 AES standard for single programme connectors; connectors for loudspeaker-level patch panels (S). 51:1/2, p. 70 (2003)

AES-X11 Fiber-optic audio connections; connectors and cables being used and considered for audio (S). 51:1/2, p. 70 (2003)

AES-X40 TRS connectors (S). 51:1/2, p. 70 (2003)

AES-X105 Modified XLR-3 connector for digital microphones (S). 51:1/2, p. 70 (2003)

AES-X113 Universal female phone jack (S). 51:1/2, p. 70 (2003)

AES-X123 XL Connectors to improve electromagnetic compatibility (S). 51:1/2, p. 70 (2003)

AES-X124 (S). 51:1/2, p. 71 (2003)

AES-X130 Category-6 data connector in an XL connector shell (S). 51:1/2, p. 71 (2003)

Report of the SC-05-02 working group on audio connectors, of the SC-05 subcommittee on interconnections meeting, held in conjunction with the 114th convention in Amsterdam, The Netherlands, 2003-03-22 (S). 51:7/8, pp. 706-707 (2003)

Development Projects

AES-X11 Fiber-optic audio connections; connectors and cables being used and considered for audio (S). 51:7/8, p. 706 (2003)

AES-X105 Modified XLR-3 connector for digital microphones (S). 51:7/8, p. 707 (2003)

AES-X113 Universal female phone jack (S). 51:7/8, p. 707 (2003)

AES-X123 XL Connectors to improve electromagnetic compatibility (S). 51:7/8, p. 707 (2003)

AES-X130 Category-6 data connector in an XL connector shell (S). 51:7/8, p. 707 (2003)

Open Projects

AES-R3-R Review of AES-R3-2001 TRS connectors (S). 51:7/8, p. 706 (2003)

AES14-R Review of AES14-1992 (r1998) AES standard for professional audio equipment; application of connectors. Part 1: XLR-type polarity and gender (S). 51:7/8, p. 706 (2003)

AES26-R Review of AES26-2001 AES recommended practice for professional audio; conservation of the polarity of audio signals (S). 51:7/8, p. 706 (2003)

AES45-R Review of AES45-2001 AES standard for single programme connectors; connectors for loudspeaker-level patch panels (S). 51:7/8, p. 706 (2003)

Report of the SC-05-03 working group on audio connector documentation of the SC-05 subcommittee on interconnections meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-05 (S). 51:1/2, pp. 71-72 (2003)

AES33-R Review of AES33-1999 AES standard procedure for maintenance of AES audio connector database (S). 51:1/2, pp. 71 (2003)

AES-X24 Audio connector database (S). 51:1/2, pp. 71 (2003)

Task Group SC-05-03-D (S). 51:1/2, pp. 71 (2003)

Audio File Transfers

Report of the SC-06-01 working group on audio-file transfer and exchange of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-05 (S). 51:3, pp. 166-167 (2003)

AES31-1-R AES Standard for network and file transfer of audio; part 1: disk format (S). 51:3, p. 166 (2003)

AES31-3-R AES Standard for network and file transfer of audio; part 3: simple project interchange (S). 51:3, p. 166 (2003)

AES46-R Review of AES46-2002 radio traffic data extension to broadcast wave files (S). 51:3, p. 166 (2003)

AES-X66 File format for transferring digital audio data between systems of different type and manufacture (S). 51:3, p. 166 (2003)

Edit automation (S). 51:3, p. 167 (2003)

AES-X68 A format for passing edited digital audio between systems of different type and manufacture that is based on object-oriented computer techniques (S). 51:3, p. 167 (2003)

AES-X71 Liaison with SMPTE registration authority (S). 51:3, p. 167 (2003)

AES-X128 Liaison with AAF Association (S). 51:3, p. 167 (2003)

Report of the SC-06-01 working group on audio-file transfer and exchange of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 114th convention in Amsterdam, The Netherlands, 2003-03-23 (S). 51:7/8, pp. 708-709 (2003)

Development Projects

AES-X66 File format for transferring digital audio data between systems of different type and manufacture (S). 51:7/8, p. 709 (2003)

AES-X68 A format for passing edited digital audio between systems of different type and manufacture that is based on object-oriented computer techniques (S). 51:7/8, p. 709 (2003)

AES-X71 Liaison with SMPTE registration authority (S). 51:7/8, p. 709 (2003)

AES-X128 Liaison with AAF Association (S). 51:7/8, p. 709 (2003)

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AES31-1-R AES Standard for network and file transfer of audio. part 1: disk format (S). 51:7/8, p. 708 (2003)

AES31-3-R AES Standard for network and file transfer of audio. part 3: simple project interchange (S). 51:7/8, p. 708 (2003)

AES46-R Review of AES46 AES standard for network and file transfer of audio; audio-file transfer and exchange; radio traffic audio delivery extension to the broadcast-wave-file format (S). 51:7/8, p. 709 (2003)

Audio Metadata

Report of the SC-06-06 Working group of audio metadata of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-07 (S). 51:3, p. 168 (2003)

AES-X114 Metadata review (S). 51:3, p. 168 (2003)

Call for Comment

Draft AES10-xxx, Draft revised AES recommended practice for digital audio engineering—serial multichannel audio digital interface (MADI) (S). 51:1/2, p. 63 (2003)

Draft AES10-yyyy, Draft revised AES recommended practice for digital audio engineering—serial multichannel audio digital interface (MADI) (S). 51:4, p. 253 (2003)

Draft AES11-20xx, draft revised AES recommended practice for digital audio engineering—synchronization of digital audio equipment in studio operations has been published (S). 51:9, p. 842 (2003)

Draft AES3-xxxx, Draft revised AES standard for digital audio—digital input-output interfacing—serial transmission format for two channel linearly represented digital audio data (S). 51:7/8, p. 704 (2003)

Draft AES5-20xx, draft revised AES recommended practice for professional digital audio—preferred sampling frequencies for applications employing pulse-code modulation has been published (S). 51:9, p. 842 (2003)

On withdrawal of AES19-1992 published 2003-03-10 (S). 51:5, p. 384

Reaffirmation of AES-1id-1991, AES information document—plane-wave tubes: design and practice (S). 51:4, p. 253 (2003)

Reaffirmation of AES2-1984(r1997), AES recommended practice—specification of loudspeaker components used in professional audio and sound reinforcement (S). 51:1/2, pp. 63-64 (2003)

Reaffirmation of AES22-1997, AES recommended practice for audio preservation and restoration—storage and handling—storage of polyester-base magnetic tape (S). 51:1/2, p. 64 (2003)

Reaffirmation of AES28-1997, AES standard for audio preservation and restoration—method for estimating life expectancy of compact discs (CD-ROM), based on effects of temperature and relative humidity (S). 51:1/2, p. 64 (2003)

Reaffirmation of AES-5id-1997, AES information document for room acoustics and sound reinforcement systems—loudspeaker modeling and measurement—frequency and angular resolution for measuring, presenting and predicting loudspeaker polar data (S). 51:1/2, p. 65 (2003)

Reaffirmation of AES6-1982 (r1997), AES standard method for measurement of weighted peak flutter of sound recording and reproducing equipment (S). 51:1/2, p. 64 (2003)

Digital Input-Output Interfacing

Report of the SC-02-02 working group on digital input/output interfacing of the SC-02 subcommittee on digital audio meeting, held in conjunction with the AES 114th convention in Amsterdam, The Netherlands, 2003-20-03 (S). 51:6, pp. 547-548 (2003)

AES-2id-R Review AES-2id-1984 AES information document for digital audio engineering; guidelines for the use of the AES3 interface (S). 51:6, p. 547 (2003)

AES-3id-R Review of AES-3id-2001 AES information document for digital audio engineering; transmission of AES3 formatted data by unbalanced coaxial cable (S). 51:6, p. 547 (2003)

AES-R4-R Review of AES-R4 2002 Guidelines for AES standard for digital audio; digital input-output interfacing; transmission of digital audio over asynchronous transfer mode (ATM) networks, AES47 (S). 51:6, p. 547 (2003)

AES-10id-R Review of AES-10id engineering guidelines for the multichannel audio digital interface (MADI), AES10 (S). 51:6, p. 547 (2003)

AES3-R Revision of AES3-1992 (r1997) AES recommended practice for digital audio engineering; serial transmission format for two-channel linearly represented digital audio data (S). 51:6, p. 547 (2003)

AES10-R Review of AES10-1991 (r1997) AES recommended practice for digital audio engineering; serial multichannel audio digital interface (MADI) (S). 51:6, p. 547 (2003)

AES18-R Review of AES18-1996 AES recommended practice for digital audio engineering; format for the user data channel of the AES digital audio interface (S). 51:6, pp. 547-548 (2003)

AES41-R Review of AES41-2000 AES recommended practice for digital audio engineering; recoding data set for audio bit-rate reduction (S). 51:6, p. 548 (2003)

AES47-R Review of AES47-2002 digital audio in asynchronous transfer mode (ATM) (S). 51:6, p. 548 (2003)

AES-X50 Guidelines for development of specifications which reference or use AES3 formatted data (S). 51:6, p. 548 (2003)

AES-X111 Transmission of the Unique Material Identifier (UMID) on AES3 (S). 51:6, p. 548 (2003)

AES-X119 Connector for AES3 interfaces (S). 51:6, p. 548 (2003)

Liaison with EBU P/AGA (S). 51:6, p. 548 (2003)

Report of the SC-02-02 working group on digital input-output interfacing of the SC-02 subcommittee on digital audio meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-03 (S). 51:1/2, pp. 65-66 (2003)

AES-2id-R Review AES-2id Guidelines for the use of AES3 interface (S). 51:1/2, p. 65 (2003)

AES-3id-R Review of AES-3id Transmission of AES3 formatted data by unbalanced coaxial cable (S). 51:1/2, p. 65 (2003)

AES-10id-R Review of AES-10id Engineering guidelines for the multichannel audio digital interface (MADI) AES10 (S). 51:1/2, p. 65 (2003)

AES3-R Revision of AES3 Serial transmission format for two-channel linearly represented digital audio data (S). 51:1/2, p. 65 (2003)

AES10-R Review of AES10 serial multichannel audio digital interface (MADI) (S). 51:1/2, p. 65 (2003)

AES18-R Review of AES recommended practice for digital audio engineering; format for the user data channel of the AES digital audio interface (S). 51:1/2, p. 65 (2003)

AES41-R Review of AES41 Recoding data set for audio bit-rate reduction (S). 51:1/2, p. 65 (2003)

AES47-R Review of AES47 digital input-output interfacing; transmission of asynchronous transfer mode (ATM) networks (S). 51:1/2, p. 65 (2003)

AES-X50 Guidelines for development of specifications which reference or use AES3 formatted data (S). 51:1/2, p. 65 (2003)

AES-X92 Digital audio in asynchronous transfer mode (ATM) (S). 51:1/2, p. 66 (2003)

AES-X94 Presto: audio via synchronous digital hierarchy (SDH) (S). 51:1/2, p. 66 (2003)

AES-X111 Transmission of the unique material identifier (UMID) on AES3 (S). 51:1/2, p. 66 (2003)

AES-X119 Connector for AES3 interfaces (S). 51:1/2, p. 66 (2003)

Digital Synchronization

Call for comment on draft AES11-20xx, draft revised AES recommended practice for digital audio engineering—synchronization of digital audio equipment in studio operations has been published (S). 51:9, p. 842 (2003)

Report of the SC-02-05 working group on synchronization of the SC-02 subcommittee on digital audio meeting held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-03 (S). 51:1/2, pp. 66-67 (2003)

AES5-R Review of AES5-1998 AES recommended practice for professional digital audio; preferred sampling frequencies for applications employing pulse-code modulation (S). 51:1/2, p. 66 (2003)

AES11-R Review of AES11-1997 AES recommended practice for digital audio engineering; synchronization of digital audio equipment in studio operations (S). 51:1/2, p. 67 (2003)

AES-X121 Synchronization of digital audio over wide areas (S). 51:1/2, p. 67 (2003)

Time and date in AES11 DARS (S). 51:1/2, p. 67 (2003)

Liaisons

The Society of Motion Picture and Television Engineers (SMPTE) (S). 51:1/2, p. 67 (2003)

SC-06-02 (S). 51:1/2, p. 67 (2003)

Report of the SC-02-05 working group on synchronization of the SC-02 subcommittee on digital audio meeting, held in conjunction with the AES 115th convention in New York, NY, US, 2003-10-08 (S). 51:12, p.xx (2003)

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AES-X121 Synchronization of digital audio over wide areas (S). 51:12, p. 1193 (2003)

AES-X136 Date and time in AES11 (S). 51:12, p. 1193 (2003)

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AES5-R Review of AES5-2003 AES recommended practice for professional digital audio; preferred sampling frequencies for applications employing pulse-code modulation (S). 51:12, p. 1193 (2003)

AES11-R Revision of AES11-1997 AES recommended practice for digital audio engineering; synchronization of digital audio equipment in studio operations (S). 51:12, p. 1193 (2003)

Report of the SC-02-5 working group on synchronization of the SC-02 subcommittee on digital audio meeting, held in conjunction with the AES 114th convention in Amsterdam, The Netherlands, 2003-04-26 (S). 51:6, pp. 548-549 (2003)

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AES-X121 Wide area synchronization (assigned to task group SC-02-05-D) (S). 51:6, p. 548 (2003)

AES-X136 Date and time in AES11 DARS (assigned to task group SC-02-05-E) (S). 51:6, p. 549 (2003)

Internal Liaisons (Informal)

SC-06-02-G Synchronization of 1394 across bridges (S). 51:6, p. 549 (2003)

SC-04-04-D Digital microphones (S). 51:6, p. 549 (2003)

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AES5-R Review of AES5-1998 AES recommended practice for professional digital audio; preferred sampling frequencies for applications employing pulse-code modulation (S). 51:6, p. 548 (2003)

AES11-R Review of AES11-1997 AES recommended practice for digital audio engineering; synchronization of digital audio equipment in studio operations (S). 51:6, p. 548 (2003)

Forensic Audio

Report of the SC-03-12 working group on forensic audio of the SC-03 subcommittee on the preservation and restoration of audio recording meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-05 (S). 51:1/2, pp. 69-70 (2003)

AES27-R Review of AES27-1996 (r2002) AES recommended practice for forensic purposes; managing recorded audio materials intended for examination (S). 51:1/2, p. 69 (2003)

AES43-R Review of AES43-2000 AES standard for forensic audio; criteria for the authentication of analog audio tape recordings (S). 51:1/2, p. 69 (2003)

AES-X10 Guidelines for forensic analysis; study of requirements for identification and enhancement of recorded audio information (S). 51:1/2, p. 69 (2003)

AES-X115 Forensic audio for video (S). 51:1/2, p. 69 (2003)

AES-X116 Forensic media (S). 51:1/2, p. 69 (2003)

AES-X117 Forensic audio education (S). 51:1/2, p. 69 (2003)

Report of the SC-03-12 working group on forensic audio of the SC-03 subcommittee on the preservation and restoration of audio recording meeting, held in conjunction with the AES 114th convention in Amsterdam, The Netherlands, 2003-03-22 (S). 51:6, pp. 549-550 (2003)

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AES-X10 Guidelines for forensic analysis: study of requirements for identification and enhancement of recorded audio information (S). 51:6, p. 549 (2003)

AES-X135 Forensic audio; recordist audio evidence collection (FARAEC) (S). 51:6, p. 549 (2003)

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AES27-R Review of AES27-1996 (r2002) AES recommended practice for forensic purposes; managing recorded audio materials intended for examination (S). 51:6, p. 549 (2003)

AES43-R Review of AES43-2000 AES standard for forensic audio; criteria for the authentication of analog audio tape recordings (S). 51:6, p. 549 (2003)

Grounding and EMC

Report of the SC-05-05 working group on grounding and EMC practices of the SC-05 subcommittee on interconnections meeting, held in conjunction with the 114th convention in Amsterdam, The Netherlands, 2003-03-22 (S). 51:7/8, pp. 707-708 (2003)

AES-X13 Guidelines for shielding (S). 51:7/8, p. 707 (2003)

AES-X27 Test methods for measuring electromagnetic interference susceptibility in balanced line-level interconnections (S). 51:7/8, p. 707 (2003)

AES-X35 Installation wiring practices (S). 51:7/8, p. 708 (2003)

AES-X112 Insulating cable-mount XL connectors (S). 51:7/8, p. 708 (2003)

AES-X125 Input filtering for electromagnetic compatibility (S). 51:7/8, p. 708 (2003)

Internet Audio Delivery

Report of the SC-06-04 working group on Internet audio delivery systems of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-04 (S). 51:3, pp. 167-168 (2003)

AES-X74 Recommended practice for Internet audio quality descriptions (S). 51:3, p. 167 (2003)

AES-X98 Liaison with the secure digital music initiative (SDMI) (S). 51:3, p. 168 (2003)

AES-X79 Distribution of music over nonphysical networks (S). 51:3, p. 168 (2003)

Report of the SC-06-04 working group on Internet audio delivery systems of the SC-06 subcommittee on network and file transfer of audio meeting, held in conjunction with the AES 115th convention in New York City, NY, US, 2003-10-09 (S). 51:12, p. 1194 (2003)

AES-X-074 Recommended practices for Internet audio quality descriptions (IAQUAD) (S). 51:12, p. 1194 (2003)

Level Meters

IEEE "Standard for Audio Program Level Measurement" Withdrawn (S). 51:6, p. 547 (2003)

Library and Archive Systems

Report of the SC-03-06 working group on digital library and archive systems of the SC-03 subcommittee on the preservation and restoration of audio recording meeting, held in conjunction with the AES 113th convention in Los Angeles, CA, US, 2002-10-05 (S). 51:1/2, pp. 68-69 (2003)

AES-X98 Review of audio metadata (S). 51:1/2, p. 68 (2003)

AES-X99 Transfers to digital storage (S). 51:1/2, p. 69 (2003)

AES-X100 Asset management (S). 51:1/2, p. 69 (2003)

AES-X120 Liaison with IASA (S). 51:1/2, p. 69 (2003)

Report of the SC-03-06 working group on digital library and archive systems of the SC-03 subcommittee on the preservation and restoration of audio recording meeting, held in conjunction with the AES 114th convention in Amsterdam, The Netherlands, 2003-03-22 (S). 51:9, p. 843 (2003)

AES-X98 Review of audio metadata (S). 51:9, p. 843 (2003)

AES-X120 Liaison with International Association of Sound and Audiovisual Archives (IASA) (S). 51:9, p. 843 (2003)

Listening tests

Report of the AES SC-04-07 working group on listening tests, of the SC-04 subcommittee on acoustics meeting, held in conjunction with AES 113th convention in Los Angeles, CA, US, 2002-10-06 (S). 51:4, p. 255 (2003)

AES-X57 Subjective evaluation of vehicle sound reproduction systems (S). 51:4, p. 255 (2003)

Report of the AES SC-04-07 working group on listening tests, of the SC-04 subcommittee on acoustics meeting, held in conjunction with AES 114th convention in Amsterdam, The Netherlands, 2003-03-23 (S). 51:7/8, p. 708 (2003)

AES-X57 Subjective evaluation of vehicle sound reproduction systems (S). 51:7/8, p. 706 (2003)

Report of the AES SC-04-07 working group on listening tests, of the SC-04 subcommittee on acoustics meeting, held in conjunction with the AES 115th convention, New York, NY, US, 2003-10-12 (S). 51:12, p. 1194 (2003)

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AES-X057 Subjective evaluation of vehicle sound reproduction systems (S). 51:12, p. 1194 (2003)

AES-X104 Speech intelligibility (task group) (S). 51:12, p. 1194 (2003)

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